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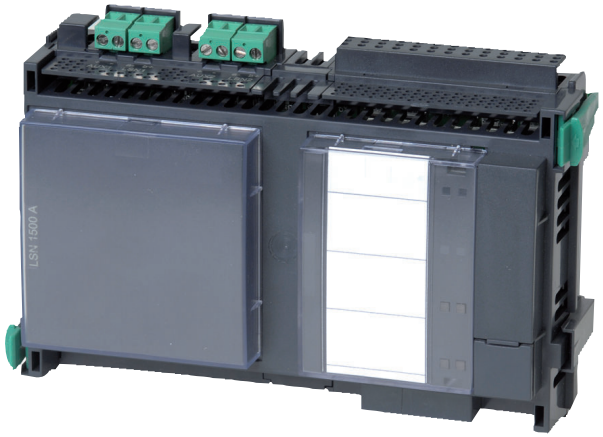
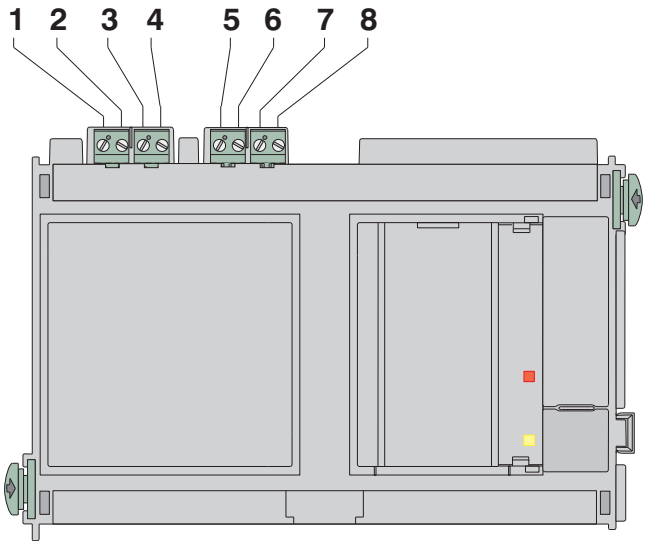
LSN 1500 A LSN improved Module 1500 mA



- **Up to 254 LSN improved elements**
- **Line length up to 3000 m, depending on configuration and cable type**
- **Unshielded cable can be used**
- **Line current up to 1500 mA, depending on configuration and cable type**
- **Flexible network structures (loop, stub, and T-tap)**
- **Addressing techniques: LSN improved auto-addressing, LSN classic auto-addressing and manual address assignment**

This module allows the connection of an LSN loop with up to 254 LSN improved elements with a maximum line current of 1500 mA or with up to 127 classic LSN elements, with a maximum line current of 300 mA.

System Overview



Item	Description	Connection	
LSN loop	LSN stub		
1 / 2	AUX1 + / -	Auxiliary power supply	Auxiliary power supply stub 1
3	LSN a1-	LSN a1- outgoing	Stub 1 LSN a1-
4	LSN b1+	LSN b1+ outgoing	Stub 1 LSN b1+

Item	Description	Connection	
5 / 6	AUX2 + / -	Auxiliary power supply***	Auxiliary power supply stub 2
7	LSN a2-	LSN a2- incoming	Stub 2 LSN a1-
8	LSN b2+	LSN b2+ incoming	Stub 2 LSN b1+

*** Auxiliary power must only be returned to AUX2 in looped isolators (ERT systems). [Suitable isolators include YBO-R/SCI isolators]

Technical Specifications

Electrical systems

Input voltage	20 V DC to 30 V DC / 5 V DC ± 5 %
Output voltage:	
• LSN	30 ± 0.85 V DC
• Aux auxiliary power	28 ± 1.0 V DC
Max. current consumption	4010 mA at 24 V DC
Nominal current consumption	
• Module	260 mA at 24 V DC
• LSN	1.7 x current consumption of LSN elements
• AUX	1.2 x Auxiliary power
LSN line current:	
• Standby	Max. 750 mA, depending on configuration and cable type
• Alarm	Max. 1500 mA, depending on configuration and cable type, Max. 300 mA at connection of classic LSN elements
AUX auxiliary power (28 V DC)	Max. 500 mA in an LSN loop (ERT system) or 2 x max. 500 mA in 2 stubs

Mechanical systems

Operation/display elements	2 LEDs (red = alarm, yellow = fault) 1 button (LED test)
Housing material	ABS plastic, (UL94 V-0)
Housing color	Satin finish, anthracite, RAL 7016
Dimensions	Approx. 127 x 190 x 60 mm (5.0 x 7.6 x 2.4 in.)
Weight	Approx. 440 g

System limits

Max. line length	3000 m, depending on configuration and cable type
Number of elements	Max. 127 classic LSN elements Max. 254 LSN improved elements

Environmental conditions

Permissible operating temperature	-5 °C to 50 °C (23 °F to 122 °F)
Permitted storage temperature	-20 °C to 60 °C (-4 °F to 140 °F)
Permitted relative humidity	95 % , non-condensing
Protection class as per IEC 60529	IP 30